



Technical data

LEICA S (Typ 007)

Camera type: Digital medium-format single-lens reflex camera for use with Leica S-Lenses

Image sensor

Type: Leica CMOS sensor with micro-lens layer
Dimensions: 30 × 45 mm (Leica Pro Format)
Aspect ratio: 2:3
Resolution: 37.5 megapixels
Pixel pitch: 6 µm
Dynamic range: 13 stops
Colour depth: 16 bits per pixel
Colour spaces: sRGB/Adobe RGB/ECI RGB 2.0
White balance: Presets: daylight, cloudy, shade, incandescent, HMI, fluorescent warm, fluorescent cool, flash, grey card (determined from image), grey card Live View, automatic, colour temperature (kelvin)
Low-pass filter/IR filter: No/on sensor
Moire suppression: In external image-processing software (e.g. with the Adobe Lightroom® software provided with the camera)

Lenses

Lens mount: Leica S bayonet for Leica S-Lenses
Focal length: Dependent on Leica S-Lens attached, conversion factor to 35 mm film equivalent 0.8×

Focusing

Type: Predictive AF with centre cross sensor defined by cross hairs on the focusing screen, focusing drive integrated in lenses
AF modes: AFs (single) = focus priority, AFc (continuous) = predictive focus tracking, MF (manual), manual override possible at any time
AF memory: Shutter release or five-way switch



Manual focus: With lens focusing ring

Exposure setting

Exposure metering: Exposure metering through the lens (TTL)
Metering modes: Multi-segment metering (five fields), centre-weighted integral metering, selective (spot) metering (3.5% of image frame)
AE lock: Shutter release or five-way switch
Metering range (at f/2.5 and ISO 100): Spot metering: EV 2.7–20, centre-weighted and multi-segment metering: EV 1.2–20
Exposure control: Programme AE (with shift function) (P), shutter priority AE (T), aperture priority AE (A), manual metering (M)
Exposure compensation: ± 3 EV in half-stop increments
Bracketing (AEB): Three/five exposures (automatic/manual), half, one, two or three stops
ISO sensitivity: ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200, ISO 6400, auto ISO

Shutter

Shutter: Focal plane camera shutter
Optional: central shutter in Leica CS version lenses
Type: In-camera: microprocessor-controlled, metal blade, vertical focal plane shutter
Shutter speeds: 125 s (dependent on ISO setting) to 1/4000 s in half-stop increments, time exposures to max. 125 s
CS shutter option: Optional central shutter in Leica S-Lenses (CS versions)
CS shutter speeds: Up to 1/1000 s in half-stop increments
Flash sync speed, all speeds up to 1/1000 s
Linear flash mode: Faster sync speeds than 1/125 s are possible with the Leica SF58 flash unit and HSS-capable SCA3002 flash units
Continuous shooting: Approx. 3.5 fps
Shutter release: Two pressure points; activation of exposure metering and AF, shutter release
Self-timer: Two- or 12-second delay with mirror pre-release



Mirror pre-release: Yes

Video

Video recording: Full HD in Leica Pro Format (medium format)
4K video in super 35 window mode

Video resolution: Full HD: 1080 × 1920
4K: 4096 × 2160

Frame rate: Full HD: 24, 25, 30 fps
4K: 24 fps

Video format: MOV (motion JPEG)

Colour sampling: 4:2:2

Exposure control: Manual and automatic

Audio control: Manual and automatic

Onboard audio: Integrated stereo microphone
48 kHz, 16 bit

External audio: Audio in (3.5 mm jack)
Audio out (3.5 mm jack)
With audio adapter S (supplied with the camera)

Time code: Internal
External with audio adapter S (supplied with the camera)

Other: Focus peaking, video playback, clean HDMI video stream for recording on external HDMI recorders

Live View

Frame rate: Up to 60 fps

Focusing: Manual
AF metering field shift to any part of the viewfinder image

Exposure control: Multi-segment, centre-weighted, spot (linked to AF metering field
shift within the viewfinder image)

Exposure simulation: Yes

Other: Histogram with clipping display, focus peaking, levelling aid (spirit level), exposure information



Viewfinder

Type:	Pentaprism viewfinder with high-eye-point eyepiece, LCD bar below viewfinder image, illuminated and with displays/warnings
Magnification:	0.87× (with 70 mm lens at infinity)
Viewfinder coverage:	Approx. 98%
Dioptre compensation:	-3 to +1 dioptres
Focusing screen:	Interchangeable

Displays

Top-deck display:	Self-illuminating LCD panel on top deck
Monitor:	3" TFT LCD monitor with 921,600 pixels, 16 million colours, sRGB colour space, image field approx. 100%, maximum oblique viewing angle 170°
Protective cover:	Anti-glare dirt-repellent protective glass cover in scratch-resistant Corning Gorilla Glass®

Flash

Mount: connection socket	Hot shoe with centre and control contacts, LEMO® flash
Compatibility:	Full compatibility with Leica SF58 and flash units with SCA3002 adapters
X synchronisation:	Focal plane shutter: 1/125 s Central shutter (leaf shutter): All speeds up to 1/1000 s with CS lenses, FPS sync at all speeds slower than 1/125 s, choice of first or second curtain sync; FPS flash sync at faster shutter speeds (1/180 s to 1/4000 s) possible with suitably equipped flash units (HSS mode)
Sync time:	On first or second curtain (FPS)

Exposure

Exposure modes:	Single frame, continuous, self-timer 2 s (with mirror pre-release), self-timer 12 s (with mirror pre-release), time lapse exposure
-----------------	------------------------------------------------------------------------------------------------------------------------------------



Data recording

Image file formats:	Lossless compressed DNG (7500 × 5000 pixels, approx. 42 MB per image), JPEG (7500 × 5000 pixels, in three resolutions, 37.5, 9.3, 2.3 megapixels, approx. 1–16 MB per image, depending on resolution and image content)
Maximum burst rate:	3.5 fps
Buffer memory:	DNG compressed, max. 32 images, JPEG no limit (dependent on memory card type, shutter speed and ISO setting)
Simultaneous capture option for DNG and JPG:	Yes
Storage media:	SD card (SDXC, SDHC) CF card (UDMA7) External on PC

Other functions

Menu languages:	English, German, French, Italian, Spanish, Russian, Japanese, traditional Chinese, simplified Chinese, Portuguese, Korean
Firmware update:	User upload option
GPS:	Selectable (may not be available in all countries due to local legislation)
Wlan:	Integrated in camera body (remote camera control and image assessment by smartphone or tablet app)
Date/time:	User setting option, automatic date, time and time zone synchronisation with activated GPS module
Levelling:	Accuracy/display sensitivity <1° at 0–40° ambient temperature

Interfaces

USB:	LEMO® USB 3.0 HiSpeed
HDMI:	HDMI type C socket
Audio:	With audio adapter (audio in, audio out, time code)
Flash synchronisation:	LEMO® flash sync socket
Remote release:	LEMO® cable release
Wlan:	Integrated in camera



Handgrip: For multifunctional grip S

Software

Software package: Adobe Photoshop Lightroom® and Leica Image Shuttle, downloadable from the Leica owners' area after product registration

Power supply

Battery: Rechargeable lithium-ion battery, nominal voltage 7.3 V, capacity 2300 mAh

Battery-independent power supply: With Leica AC adapter S (optional accessory)

Power supply and battery charger: Quick Charger S (with integrated US mains plug, plugs for EU, UK and Australia and car adapter)
Inputs: 100–240 V AC, 50/60 Hz, automatic toggle, or 12/24 V DC; output: 7.4 V DC, 1250 mA

Body

Body construction: Full-metal chassis in die-cast aluminium with high-grip plastic coating, magnesium alloy top deck, baseplate in fibreglass-reinforced polycarbonate

Operating conditions: 0 to +45°C (32 to 113°F), 15–80% relative humidity

Dimensions (W × H × D): 160 × 80 × 120 mm

Weight: Approx. 1260 g (body only, with battery)

Dust-proof/splash-proof: Yes/yes

Tripod bushes: 1/4" and 3/8" with anti-twist locking pins

Package

Package contents: S-Camera, rapid charger S (with integrated US mains plug, interchangeable plugs for EU, UK and Australia and car adapter), rechargeable lithium-ion battery, LEMO® USB 3.0 cable, LEMO® flash sync cable, carrying strap, bayonet body cap, eyepiece



cap, audio adapter, Leica Protection Plan Body

Accessories (optional)

Flash: Leica SF58, Leica SF58 diffuser
Other: Leica multifunctional handgrip S, Leica hand strap S, professional charger S, Leica AC adapter S, Leica case S, Leica HDMI cable, Leica grid focusing screen S, Leica microprism focusing screen S, Leica standard focusing screen S, Leica remote-release cable S, Leica S-Adapter C/H/V/M645/P67

Service packages

Packages: Leica Protection Plan Body (included in price)
Leica Protection Plan Lens (optional)
Leica Protection Plan Vario Lens (optional)
Leica Protection Plan CS Lens (optional)